

Title (en)
Method of encapsulating phosphores

Title (de)
Verfahren zum Einkapseln von Phosphor

Title (fr)
Procédé d'encapsulation de luminophores

Publication
EP 1000997 A1 20000517 (FR)

Application
EP 99410157 A 19991108

Priority
FR 9814226 A 19981109

Abstract (en)
Formation of zinc oxide or indium oxide layer on the surface of a luminophor deposited on a substrate involves adding the luminophor grains to an aqueous solution containing dissolved zinc nitrate or indium nitrate, polyvinyl alcohol (serigraphic binder) and antifoaming agent in water, deposition, and annealing. 1-0.6g of the nitrate and 6-10g of the luminophor are dissolved in 10g of the solution. The luminophor is selected from the following: Gd₂O₂S:Tb, Y₂SiO₅:Tb, Y₂SiO₅:Ce, Y₂O₃:Eu and ZnO:Zn. Annealing is carried out at 400-500 degrees C for several hours.

Abstract (fr)
L'invention concerne un procédé de formation d'une couche d'oxyde de zinc ou d'indium à la surface de luminophores déposés par sérigraphie sur un substrat, comprenant les étapes consistant à ajouter les grains à une solution de liant de sérigraphie dans de l'eau, dissoudre dans la solution un nitrate de zinc ou d'indium, procéder au dépôt par sérigraphie, et recuire.

IPC 1-7
C09K 11/02; **H01J 9/227**; **H01J 29/28**

IPC 8 full level
C09K 11/00 (2006.01); **C09K 11/02** (2006.01); **C09K 11/08** (2006.01); **G09F 9/00** (2006.01); **H01J 9/227** (2006.01); **H01J 29/28** (2006.01)

CPC (source: EP US)
C09K 11/025 (2013.01 - EP US); **C09K 11/08** (2013.01 - EP); **H01J 9/2277** (2013.01 - EP US); **H01J 29/28** (2013.01 - EP US)

Citation (search report)

- [A] EP 0372560 A2 19900613 - KASEI OPTONIX [JP]
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Designated contracting state (EPC)
DE FR GB IT

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